

ABSTRACT OF THE DISCLOSURE

A DC motor of the present invention includes a rotor unit which is rotatably arranged within the motor and has a cylindrical field magnet fixed to an outer surface of a holder into which a rotating shaft is press-fitted at a center thereof, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof, and a stator unit which is circumferentially arranged around the rotor unit and is comprised of a plurality of stator yokes so arranged as to oppose the field magnet with a small gap, each of the stator yokes being formed by circumferentially stacking a large number of thin plates, each consisting a salient pole, and a plurality of coil units, each being formed by winding a magnet wire on a bobbin and mounted on each of the stator yokes. Thus, each of the S and N poles has a plurality of stages formed in an axial direction and shifted from each other in the circumferential direction of said field magnet with a predetermined shift amount.